

Report No.: 01

Test Time: 2015/11/30 17:30

Luminaire Property

Luminaire Manufacturer: Acolyte
Luminaire Category: RB245.5RGBW-Blue
Number of Lamps: 1
Luminous Width (mm): 12
Voltage: 24.0 V
Power: 2.53 W

Luminaire Description: RB245.5RGBW-Blue
Luminous Length (mm): 500
Luminous Height (mm): 5
Current: 0.106 A
Power Factor: 1.000

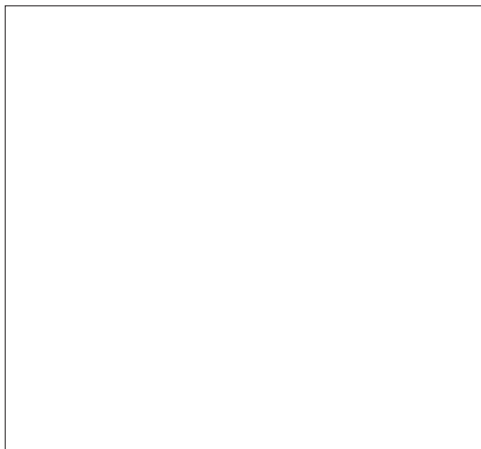
Photometric Results

CIE Class: Direct
Measurement Flux: 29 lm
Downward Ratio: 99%
Horizontal Diffuse Angle(50%): H124.8
Vertical Diffuse Angle(50%): V118.6
Luminaire Efficacy Rating (LER): 11
Max. Intensity: 9.28 cd

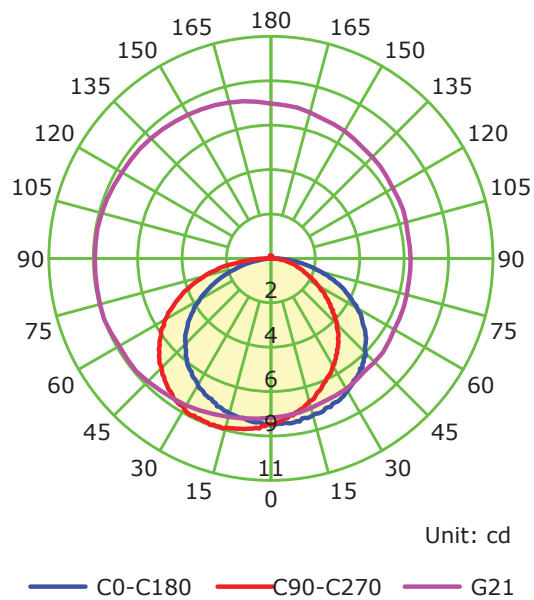
Total Rated Lamp Lumens: 29.0 lm
Efficiency: 100%
Upward Ratio: 1%

Central Intensity: 8.72 cd
Pos of Max. Intensity: H290 V21

Picture Of Luminaire



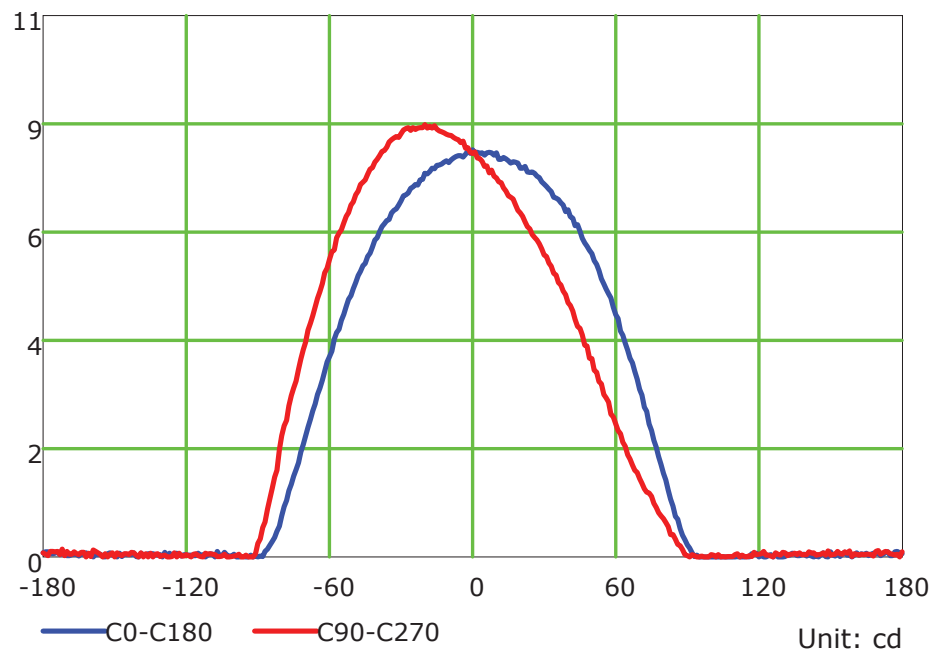
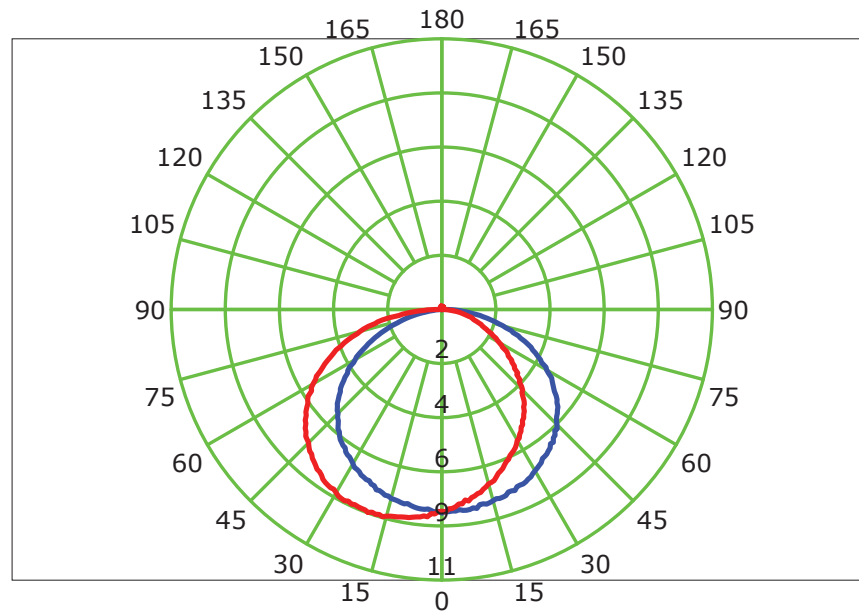
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 24°C
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Luminous Intensity Distribution Curve



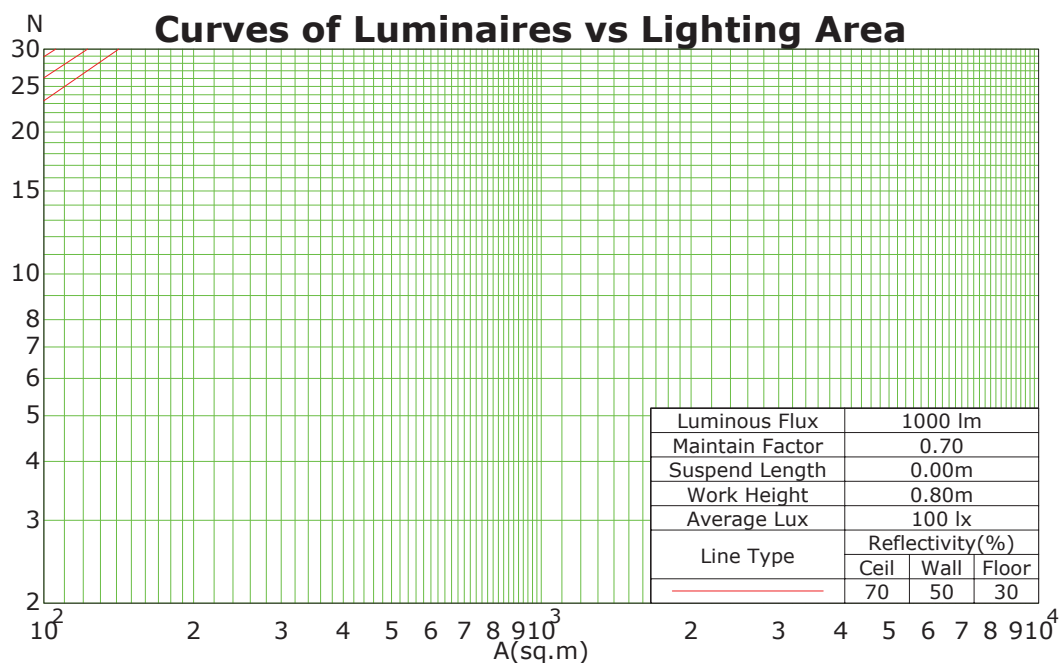
C Plane (°):0.0-360.0: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 24°C
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	108	102	98	94	105	100	96	92	96	92	89	92	89	86	88	85	83	81
2	97	89	81	75	94	87	80	74	83	77	72	79	75	70	76	72	69	66
3	88	77	69	62	86	75	67	61	72	65	60	69	64	59	67	62	57	55
4	81	68	59	52	78	67	58	51	64	56	50	61	55	50	59	53	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	49	42	37	48	42	37	35
7	63	49	40	34	61	48	40	33	46	39	33	45	38	33	43	37	32	30
8	59	45	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	30	26	24
10	51	38	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22

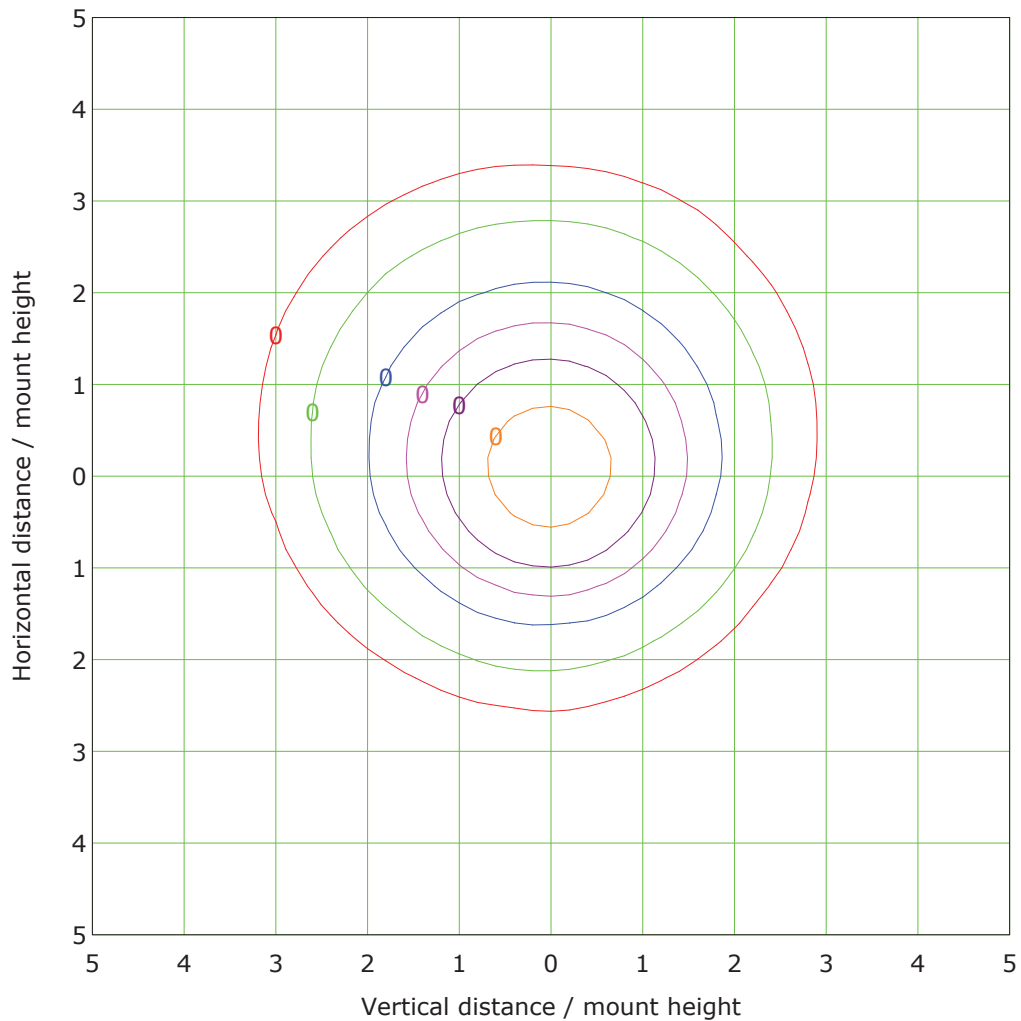
Spacing Criteria (0-180): 1.33
Spacing Criteria (90-270): 1.34
Spacing Criteria (Diagonal): 1.47



C Plane (°):0.0-360.0: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 24°C
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 0.1 lx

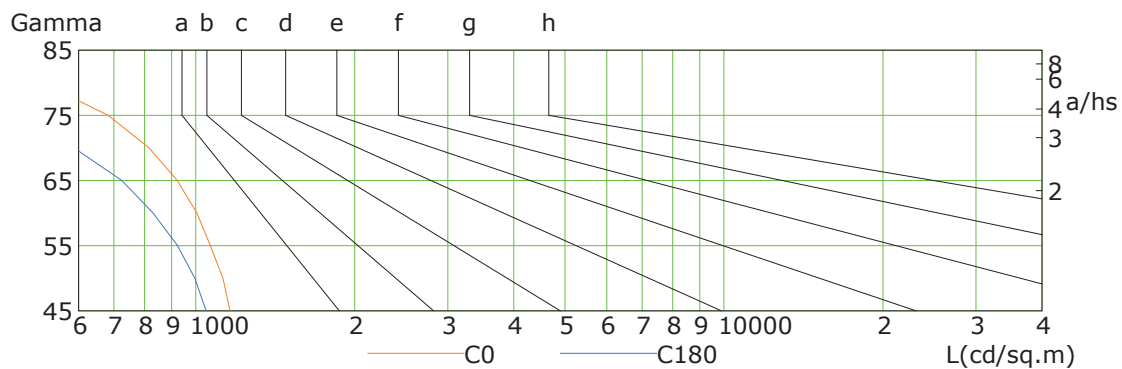
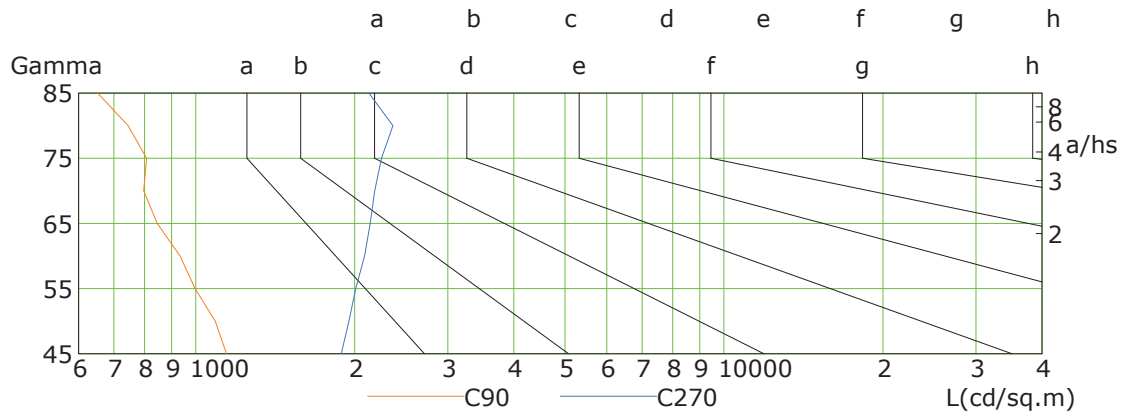
(1%): 0.0 lx	(2%): 0.0 lx
(5%): 0.0 lx	(10%): 0.0 lx
(20%): 0.0 lx	(50%): 0.0 lx
(100%): 0.1 lx	

C Plane (°):0.0-360.0: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 24°C
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

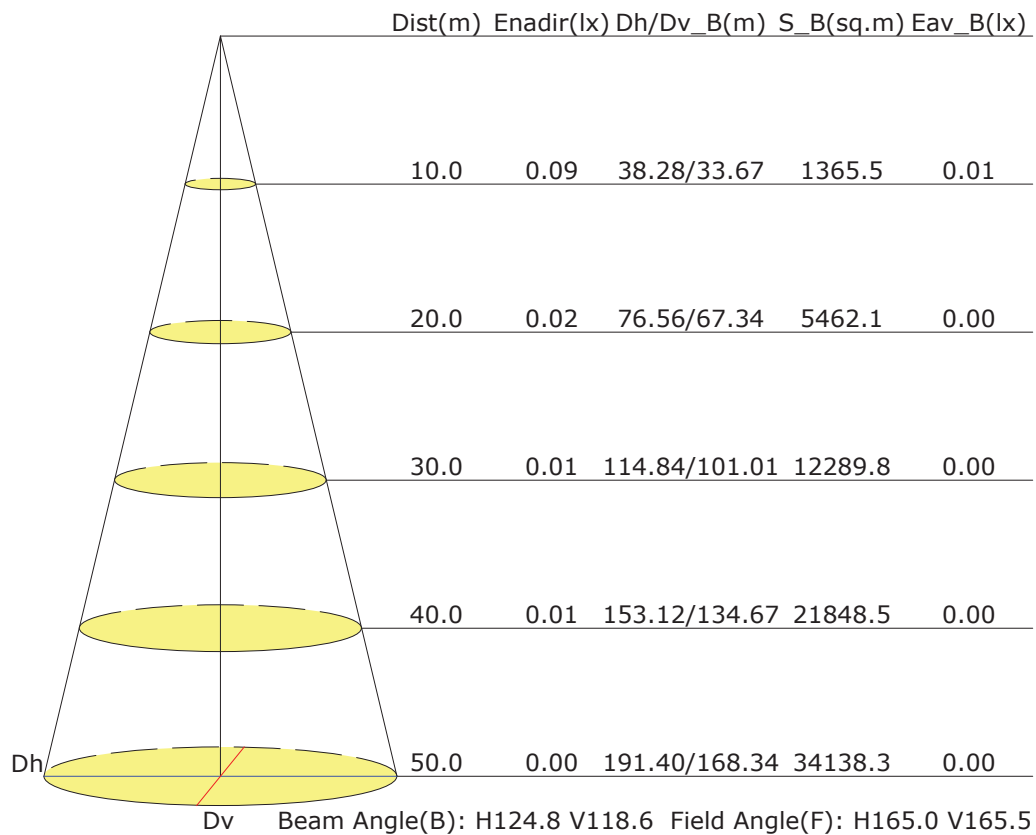


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	1161	1126	1066	1005	923	816	683	511	289
C90	1144	1089	997	934	846	797	807	745	652
C180	1047	996	924	831	725	588	436	251	83
C270	1886	1950	2008	2087	2139	2182	2247	2362	2128

C Plane (°):0.0-360.0: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 24°C
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

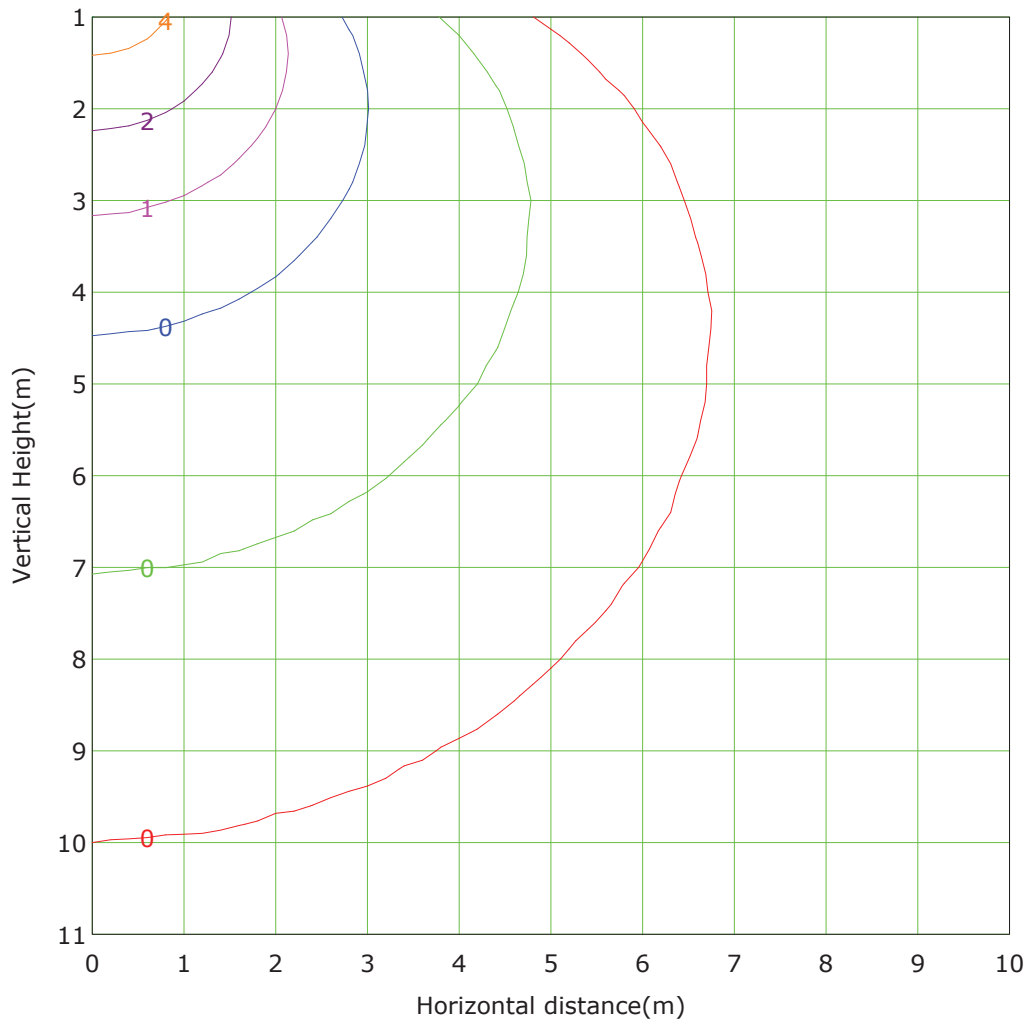
Illuminance at a Distance



C Plane (°):0.0-360.0: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 24°C
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 8.7 lx
 (1%): 0.1 lx (2%): 0.2 lx
 (5%): 0.4 lx (10%): 0.9 lx
 (20%): 1.7 lx (50%): 4.4 lx
 (100%): 8.7 lx

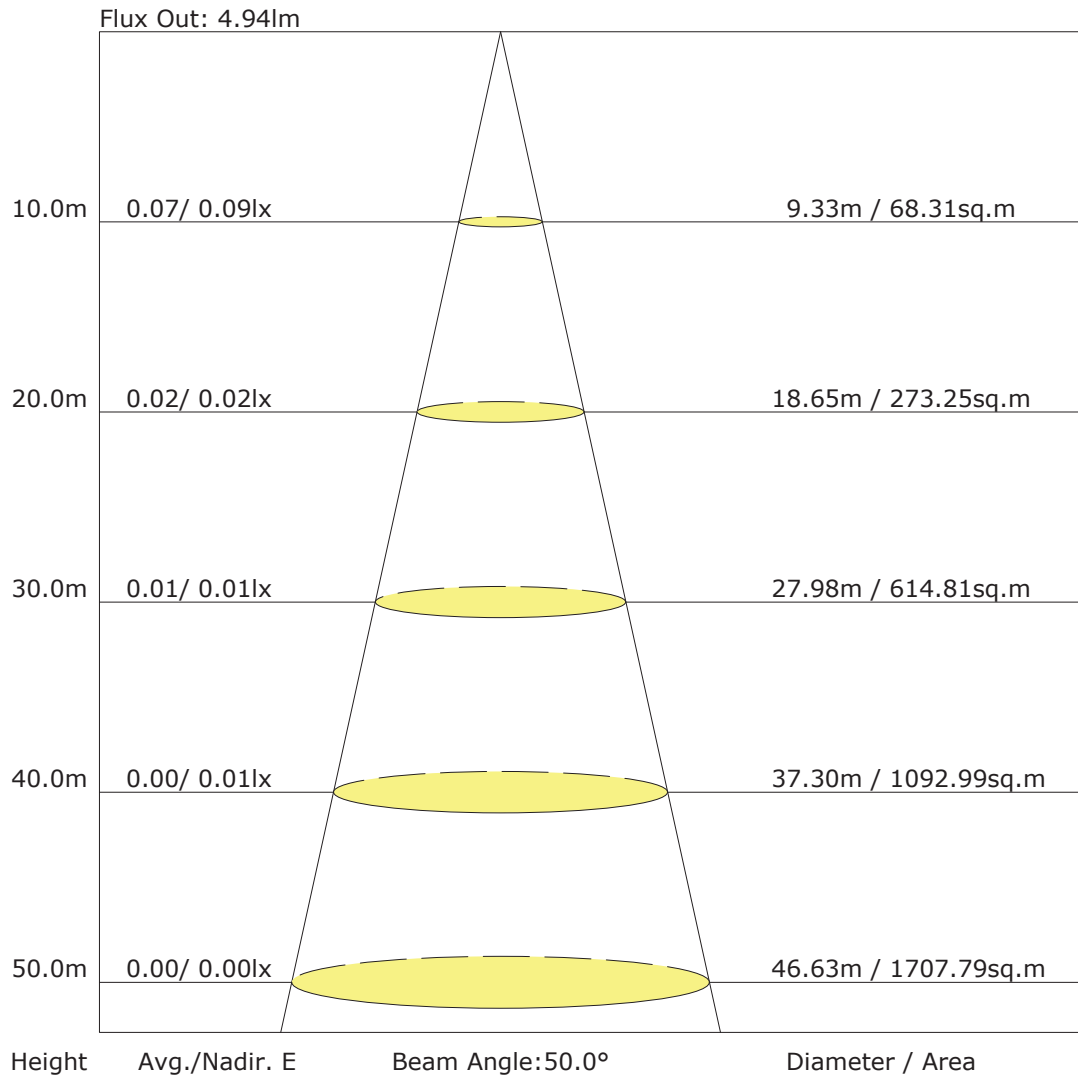
C Plane (°):0.0-360.0: 10.0
 Test Lab: ACOLYTE
 Test Type: TYPE C
 Temperature: 24°C
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 9.028 m
 Humidity: 60%
 Inspector:

Unit: 1m

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

The Average Illuminance Effective Figure



C Plane (°): 0.0-360.0: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 24°C
Operator:

Gamma Plane (°): 0.0-180.0: 1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

UGR Table

Reflectance:											
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	Viewed crosswise					Viewed endwise					
X=2H Y=2H	26.1	27.8	26.5	28.2	28.5	21.4	23.0	21.7	23.4	23.7	
3H	28.3	29.8	28.6	30.1	30.5	22.6	24.1	23.0	24.5	24.8	
4H	29.1	30.5	29.5	30.9	31.3	23.1	24.5	23.5	24.9	25.3	
6H	29.8	31.1	30.2	31.5	31.9	23.4	24.7	23.8	25.1	25.5	
8H	30.1	31.3	30.5	31.7	32.2	23.5	24.7	23.9	25.1	25.6	
12H	30.3	31.5	30.7	31.9	32.3	23.5	24.7	23.9	25.1	25.6	
X=4H Y=2H	26.7	28.1	27.1	28.5	28.9	22.1	23.6	22.5	23.9	24.3	
3H	29.0	30.2	29.4	30.6	31.1	23.5	24.7	23.9	25.1	25.5	
4H	30.0	31.1	30.4	31.5	32.0	24.1	25.2	24.5	25.6	26.0	
6H	30.8	31.8	31.3	32.2	32.7	24.5	25.4	24.9	25.9	26.4	
8H	31.1	32.0	31.6	32.5	33.0	24.6	25.5	25.1	26.0	26.4	
12H	31.4	32.2	31.9	32.7	33.2	24.7	25.5	25.2	26.0	26.5	
X=8H Y=4H	30.3	31.2	30.7	31.6	32.1	24.4	25.3	24.9	25.8	26.3	
6H	31.2	32.0	31.7	32.5	32.9	24.9	25.7	25.4	26.2	26.7	
8H	31.6	32.3	32.1	32.8	33.3	25.1	25.8	25.6	26.3	26.8	
12H	31.9	32.5	32.4	33.0	33.6	25.2	25.8	25.7	26.3	26.9	
X=12H Y=4H	30.3	31.1	30.8	31.6	32.1	24.5	25.3	25.0	25.8	26.3	
6H	31.3	31.9	31.8	32.4	33.0	25.0	25.7	25.5	26.2	26.7	
8H	31.7	32.3	32.2	32.8	33.4	25.2	25.8	25.7	26.3	26.9	

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 24°C
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector: